

Abstract

The present invention relates to a diffusion sheet for use in a transmission-type screen comprising a main diffusion layer having an incidence surface and an emergence surface which are parallel to each other, the
5 main diffusion layer diffusing a light, which is substantially perpendicularly incident on the incidence surface, in a diffusion direction to be emitted from the emergence surface. A plurality of groove channels each
10 having a substantially V-shaped cross-section are disposed in parallel to one another on the emergence surface of the main diffusion layer, and each groove channel are formed by two planes, curved surfaces, or bent planes which are joined to each other in the main
15 diffusion layer. A region sandwiched between the adjacent two groove channels provides a rib with a substantially trapezoidal cross-section, while the planes, curved surfaces, or bent planes which form each groove channel provide side surfaces of the rib. The
20 light substantially perpendicularly incident on the incidence surface is reflected on the side surfaces of the rib so that the light is diffused in the diffusion direction. An assisting diffusion layer is disposed on the side of the emergence surface of the main diffusion
25 layer, or on both sides of the emergence surface and the incidence surface of the main diffusion layer, the assisting diffusion layer having a light diffusion component for diffusing a light at least in the same direction as the diffusion direction. The light
30 diffusion component of the assisting diffusion layer is adjusted such that a gain curve of an emergent light from the diffusion sheet has no minimal point.